

VIRTUAL COMMUNICATION INTERFACES FOR A MICRO-CONTROLLER

ABSTRACT OF THE DISCLOSURE

5 A Compact Peripheral Component Interconnect (CPCI) system is provided that
allows an Intelligent Platform Management Interface (IPMI) controller to be virtualized
across many interested client entities. The system may include one or more interfaces
that are provided by a virtualizing entity to allow a client application to obtain a handle to
a virtual micro-controller, interfaces that are provided to reserve exclusive rights on
certain IPMI commands on a particular virtual controller, and/or interfaces that are
10 provided to request for a particular type of asynchronous message received on an IPMI
micro-controller. In addition, the system may provide a reservation of IPMI sequence
numbers over a virtual client and a usage of the IPMI sequence numbers to decide the
intended virtual controller. The system may also be used to perform the many
independent management tasks of the system without any explicit correlation between
15 them while using the resources of the single IPMI micro-controller.